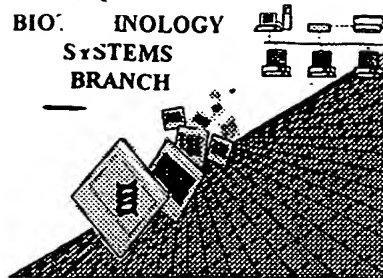


## **RAW SEQUENCE LISTING ERROR REPORT**



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/807,933

Source: PCT09

Date Processed by STIC: 5-7-01

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

**FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.**

**FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.**

**PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:**

### **Checker Version 3.0**

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

**Checker Version 3.0 can be down loaded from the USPTO website at the following address:**  
**<http://www.uspto.gov/web/offices/pac/checker>**

PAGE: 1

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/807,933

DATE: 05/07/2001  
TIME: 13:40:33

Input Set: I807933.RAW

This Raw Listing contains the General  
Information Section and those Sequences  
containing ERRORS.

1 <110> MEIJI SEIKA KAISHA, LTD.  
2 <120> Endoglucanase and cellulase composition containing the  
3 same  
4 <130> 121659PX  
5 <140> US/09/807,933  
6 <141> 2001-04-20  
7 <150> JP302387/1998  
8 <151> 1998-10-23  
9 <160> 113  
10 <170> PatentIn Ver. 2.0

Does Not Comply  
Corrected Diskette Needed

ERRORED SEQUENCES FOLLOW

E--> 11 <210> 1  
12 <211> 328  
13 <212> PRT  
14 <213> Rhizopus oryzae CP96001  
15 <220>  
16 <221> sig\_peptide  
17 <222> (-23)...(-1)  
18 <221> mat\_peptide  
19 <222> (1)...(315)  
20 <400> 1  
21 Met Lys Phe Ile Thr Ile Ala Ser Ser Ala Leu Leu Ala Leu Ala Leu  
22 -20 -15 -10  
23 Gly Thr Glu Met Ala Ser Ala Ala Glu Cys Ser Lys Leu Tyr Gly Gln  
24 -5 1 5  
25 Cys Gly Gly Lys Asn Trp Asn Gly Pro Thr Cys Cys Glu Ser Gly Ser  
26 10 15 20 25  
27 Thr Cys Lys Val Ser Asn Asp Tyr Tyr Ser Gln Cys Leu Pro Ser Gly  
28 30 35 40  
29 Ser Ser Gly Asn Lys Ser Ser Glu Ser Ala His Lys Lys Thr Thr Thr  
30 45 50 55  
31 Ala Ala His Lys Lys Thr Thr Thr Ala Ala His Lys Lys Thr Thr Thr  
32 60 65 70  
33 Ala Pro Ala Lys Lys Thr Thr Thr Val Ala Lys Ala Ser Thr Pro Ser  
34 75 80 85  
35 Asn Ser Ser Ser Ser Ser Ser Gly Lys Tyr Ser Ala Val Ser Gly Gly  
36 90 95 100 105  
37 Ala Ser Gly Asn Gly Val Thr Thr Arg Tyr Trp Asp Cys Cys Lys Ala  
38 110 115 120  
39 Ser Cys Ser Trp Pro Gly Lys Ala Asn Val Ser Ser Pro Val Lys Ser

*Number of amino acids differ:  
- 328 listed  
- 338 found*

PAGE: 2

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/807,933

DATE: 05/07/2001

TIME: 13:40:33

Input Set: I807933.RAW

```

40      125      130      135
41      Cys Asn Lys Asp Gly Val Thr Ala Leu Ser Asp Ser Asn Ala Gln Ser
42      140      145      150
43      Gly Cys Asn Gly Gly Asn Ser Tyr Met Cys Asn Asp Asn Gln Pro Trp
44      155      160      165
45      Ala Val Asn Asp Asn Leu Ala Tyr Gly Phe Ala Ala Ala Ala Ile Ser
46      170      175      180      185
47      Gly Gly Gly Glu Ser Arg Trp Cys Cys Ser Cys Phe Glu Leu Thr Phe
48      190      195      200
49      Thr Ser Thr Ser Val Ala Gly Lys Lys Met Val Val Gln Val Thr Asn
50      205      210      215
51      Thr Gly Gly Asp Leu Gly Ser Ser Thr Gly Ala His Phe Asp Leu Gln
52      220      225      230
53      Met Pro Gly Gly Gly Val Gly Ile Phe Asn Gly Cys Ser Ser Gln Trp
54      235      240      245
55      Gly Ala Pro Asn Asp Gly Trp Gly Ser Arg Tyr Gly Gly Ile Ser Ser
56      250      255      260      265
57      Ala Ser Asp Cys Ser Ser Leu Pro Ser Ala Leu Gln Ala Gly Cys Lys
58      270      275      280
59      Trp Arg Phe Asn Trp Phe Lys Asn Ala Asp Asn Pro Ser Met Thr Tyr
60      285      290      295
61      Lys Glu Val Thr Cys Pro Lys Glu Ile Thr Ala Lys Thr Gly Cys Ser
62      300      305      310
63      Arg Lys
64      315

```

```

65 <210> 7
E--> 66 <211> 338
67 <212> PRT
68 <213> Mucor circinelloides CP99001
69 <220>
70 <221> sig_peptide
71 <222> (-22)...(-1)
72 <221> mat_peptide
73 <222> (1)...(316)
74 <400> 7
75 Met Lys Phe Thr Val Ala Ile Thr Ser Ile Ala Val Ala Leu Ala Leu

```

```

E--> 76
E--> 77 0000-200000000000 -15
E--> 78
79 Ser Ser Ser Ala Glu Ala Ala Ser Cys Ser Ser Val Tyr Gly Gln
E--> 80      -5      @ 1      5      10
81 Gly Gly Ile Gly Trp Ser Gly Pro Thr Cys Cys Glu Ser Gly Ser
82      15      20      25
83 Cys Val Ala Gln Glu Gly Asn Lys Tyr Tyr Ser Gln Cys Leu Pro
84      30      35      40
85 Ser His Ser Asn Asn Ala Gly Asn Ala Ser Ser Thr Lys Lys Thr
86      45      50      55
87 Thr Lys Thr Ser Thr Thr Thr Ala Lys Ala Thr Ala Thr Val Thr
88      60      65      70

```

*Number of amino acids differ:**- 338 listed**- 339 found**Delete extraneous material*

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/807,933

DATE: 05/07/2001

TIME: 13:40:33

Input Set: I807933.RAW

```

89   Lys Thr Val Thr Lys Thr Thr Thr Lys Thr Thr Thr Lys Thr Ser
90       75                      80                      85                      90
91   Thr Ala Ala Ala Ser Thr Ser Thr Ser Ser Ser Ala Gly Tyr Lys
92               95                      100                      105
93   Ile Ser Gly Gly Lys Ser Gly Ser Gly Ser Thr Thr Arg Tyr Trp
94               110                      115                      120
95   Cys Cys Lys Ala Ser Cys Ser Trp Pro Gly Lys Ala Ser Val Thr
96               125                      130                      135
97   Pro Val Asp Thr Cys Ala Ser Asn Gly Ile Ser Leu Leu Asp Ala
98               140                      145                      150
99   Ala Gln Ser Gly Cys Asn Gly Gly Asn Gly Phe Met Cys Asn Asn
100      155                      160                      165                      170
101   Gln Pro Trp Ala Val Asn Asp Glu Leu Ala Tyr Gly Phe Ala Ala
102               175                      180                      185
103   Ser Ile Ala Gly Ser Asn Glu Ala Gly Trp Cys Cys Gly Cys Tyr
104               190                      195                      200
105   Leu Thr Phe Thr Ser Gly Ala Ala Ser Gly Lys Lys Met Val Val
106               205                      210                      215
107   Val Thr Asn Thr Gly Gly Asp Leu Gly Ser Asn His Phe Asp Leu
108               220                      225                      230
109   Met Pro Gly Gly Gly Val Gly Ile Phe Asn Gly Cys Ala Ala Gln
110      235                      240                      245                      250
111   Gly Ala Pro Asn Asp Gly Trp Gly Ala Arg Tyr Gly Gly Val Ser
112               255                      260                      265
113   Val Ser Asp Cys Ala Ser Leu Pro Ser Ala Leu Gln Ala Gly Cys
114               270                      275                      280
115   Trp Arg Phe Asn Trp Phe Lys Asn Ser Asp Asn Pro Thr Met Thr
116               285                      290                      295
117   Lys Glu Val Thr Cys Pro Ala Glu Leu Thr Thr Arg Ser Gly Cys
118               300                      305                      310
119   Arg
120      315

```

```

E--> 121 <210> 8
      122 <211> 1017 → -1017 listed
      123 <212> DNA -1032 found
      124 <213> Mucor circinelloides CP99001
      125 <220>
      126 <221> sig_peptide
      127 <222> (1)...(66)
      128 <221> mat_peptide
      129 <222> (67)...(1017)
      130 <400> 8
      131 atg aag ttc acc gtt gct att act tca atc gct gtt gca ctc gct ctc 48
      132 Met Lys Ph Thr Val Ala Ile Thr Ser Ile Ala Val Ala Leu Ala
W--> 133
E--> 134 @@@@-20@@@@@@@@@ -15 → delete -10
      135 agc tct tct gct gaa gct gct tct tgc agc tct gtc tat ggt caa tgt 96
      136 Ser Ser Ser Ala Glu Ala Ala Ser Cys Ser Ser Val Tyr Gly Gln
W--> 137 -5 ① 5 10

```

RAW SEQUENCE LISTING  
 PATENT APPLICATION US/09/807,933

 DATE: 05/07/2001  
 TIME: 13:40:33

Input Set: I807933.RAW

138	ggt ggc att gga tgg agt gga cct acc tgt tgt gaa agt ggc tct act	144
139	Gly Gly Ile Gly Trp Ser Gly Pro Thr Cys Cys Glu Ser Gly Ser	
140	15 20 25	
141	tgc gtt gct caa gaa ggc aac aaa tac tac tct caa tgt ctt ccc gga	192
142	Cys Val Ala Gln Glu Gly Asn Lys Tyr Tyr Ser Gln Cys Leu Pro	
143	30 35 40	
144	tcc cac agt aac aat gct ggt aac gct agc agc acc aag aag aca tct	240
145	Ser His Ser Asn Asn Ala Gly Asn Ala Ser Ser Thr Lys Lys Thr	
146	45 50 55	
147	acc aag aca tct act acc acc gcc aag gct act gct act gtc acc acc	288
148	Thr Lys Thr Ser Thr Thr Thr Ala Lys Ala Thr Ala Thr Val Thr	
149	60 65 70	
150	aag aca gta acc aag aca act acc aag aca act acc aag act agc act	336
151	Lys Thr Val Thr Lys Thr Thr Thr Lys Thr Thr Thr Lys Thr Ser	
152	75 80 85 90	
153	act gcc gct gct tct act tcc acc tct tct tct gct ggt tac aag gtc	384
154	Thr Ala Ala Ala Ser Thr Ser Thr Ser Ser Ser Ala Gly Tyr Lys	
155	95 100 105	
156	atc tct ggc ggt aaa tct ggc agt ggt tcc aca act cgt tat tgg gat	432
157	Ile Ser Gly Gly Lys Ser Gly Ser Gly Ser Thr Thr Arg Tyr Trp	
158	110 115 120	
159	tgt tgt aaa gct tct tgc agc tgg cct gga aaa gct tct gtc act ggt	480
160	Cys Cys Lys Ala Ser Cys Ser Trp Pro Gly Lys Ala Ser Val Thr	
161	125 130 135	
162	cct gtt gac acc tgt gcc tcc aat ggt atc tct tta tta gat gcc aat	528
163	Pro Val Asp Thr Cys Ala Ser Asn Gly Ile Ser Leu Leu Asp Ala	
164	140 145 150	
165	gct caa agt ggt tgt aac ggt ggt aat ggt ttc atg tgt aac aac aac	576
166	Ala Gln Ser Gly Cys Asn Gly Gly Asn Gly Phe Met Cys Asn Asn	
167	155 160 165 170	
168	caa cct tgg gct gtc aat gat gag ctc gct tac ggt ttc gct gct gcc	624
169	Gln Pro Trp Ala Val Asn Asp Glu Leu Ala Tyr Gly Phe Ala Ala	
170	175 180 185	
171	tct att gct ggc tcc aac gaa gct gga tgg tgt tgt ggc tgt tat gaa	672
172	Ser Ile Ala Gly Ser Asn Glu Ala Gly Trp Cys Cys Gly Cys Tyr	
173	190 195 200	
174	ttg acc ttc act tct ggc gct gct tct gga aag aag atg gtt gtt caa	720
175	Leu Thr Phe Thr Ser Gly Ala Ala Ser Gly Lys Lys Met Val Val	
176	205 210 215	
177	gtt acc aac acc ggt ggc gat tta ggc tct aac cac ttt gat ttg caa	768
178	Val Thr Asn Thr Gly Gly Asp Leu Gly Ser Asn His Phe Asp Leu	
179	220 225 230	
180	atg ccc ggt ggt ggc gtt ggt atc ttc aat ggc tgt gct gct caa tgg	816
181	Met Pro Gly Gly Gly Val Gly Ile Phe Asn Gly Cys Ala Ala Gln	
182	235 240 245 250	
183	ggc gct ccc aat gat ggc tgg gga gct aga tat ggt ggt gtc agc tct	864
184	Gly Ala Pro Asn Asp Gly Trp Gly Ala Arg Tyr Gly Gly Val Ser	
185	255 260 265	
186	gtc tct gac tgt gcc tct ctt ccc tct gct ctt caa gct ggt tgt aaa	912
187	Val Ser Asp Cys Ala Ser Leu Pro Ser Ala Leu Gln Ala Gly Cys	

PAGE: 5

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/807,933DATE: 05/07/2001  
TIME: 13:40:33

Input Set: I807933.RAW

188		270		275		280	
189	tgg aga ttc aac tgg ttc aag aac tct gat aac cct acc atg acc ttc						960
190	Trp Arg Phe Asn Trp Phe Lys Asn Ser Asp Asn Pro Thr Met Thr						
191		285		290		295	
192	aag gaa gtt acc tgt cct gct gaa tta act act cgc tca ggt tgc gaa						1008
193	Lys Glu Val Thr Cys Pro Ala Glu Leu Thr Thr Arg Ser Gly Cys						
194		300		305		310	
195	aga aag taa						1017
196	Arg						
197	315						

---

E--> 198 <210> 10  
 199 <211> 1164 → -1164 listed  
 200 <212> DNA - 1116 found  
 201 <213> Mucor circinelloides CP99001  
 202 <220>  
 203 <221> sig\_peptide  
 204 <222> (1)...(66)  
 205 <221> mat\_peptide  
 206 <222> (67)...(1164)  
 207 <400> 10

208	atg aag ttc acc gtt gct att act tca atc gct gtt gca ctc gct ctc	48
209	Met Lys Phe Thr Val Ala Ile Thr Ser Ile Ala Val Ala Leu Ala	
210	-20 -15 -10	
211	agc tct tct gct gaa gct gct tct tgc agc tct gtc tat ggt caa tgt	96
212	Ser Ser Ser Ala Glu Ala Ala Ser Cys Ser Ser Val Tyr Gly Gln	
213	-5 1 5 10	
214	ggt ggc att ggc tgg act ggt cct aca tgt tgt gat gct gga tgc acc	144
215	Gly Gly Ile Gly Trp Thr Gly Pro Thr Cys Cys Asp Ala Gly Ser	
216	15 20 25	
217	tgt aaa gct caa aag gat aac aaa tat tat tct caa tgt att ccc aaa	192
218	Cys Lys Ala Gln Lys Asp Asn Lys Tyr Tyr Ser Gln Cys Ile Pro	
219	30 35 40	
220	ccc aag ggt tcc tcc tca tca tca tca tgt agt tcc gtc tat agt caa	240
221	Pro Lys Gly Ser Ser Ser Ser Ser Ser Cys Ser Ser Val Tyr Ser	
222	45 50 55	
223	tgc ggt ggc att gga tgg agt gga cct acc tgt tgt gaa agt ggc tct	288
224	Cys Gly Gly Ile Gly Trp Ser Gly Pro Thr Cys Cys Glu Ser Gly	
225	60 65 70	
226	act tgc gtt gct caa gaa ggc aac aaa tac tac tct caa tgt ctt ccc	336
227	Thr Cys Val Ala Gln Glu Gly Asn Lys Tyr Tyr Ser Gln Cys Leu	
228	75 80 85 90	
229	gga tcc cac agt aac aat gct ggt aac gct agc agc acc aag aag aca	384
230	Gly Ser His Ser Asn Asn Ala Gly Asn Ala Ser Ser Thr Lys Lys	
231	95 100 105	
232	tct acc aag aca tct act acc acc gcc aag gct act gct act gtc acc	432
233	Ser Thr Lys Thr Ser Thr Thr Thr Ala Lys Ala Thr Ala Thr Val	
234	110 115 120	
235	acc aag aca gta acc aag aca act acc aag aca act acc aag act agc	480
236	Thr Lys Thr Val Thr Lys Thr Thr Thr Lys Thr Thr Thr Lys Thr	

RAW SEQUENCE LISTING  
 PATENT APPLICATION US/09/807,933

 DATE: 05/07/2001  
 TIME: 13:40:33

Input Set: I807933.RAW

```

237      125      130      135
238      act act gcc gct gct tct act tcc acc tct tct tct gct ggt tac aag 528
239      Thr Thr Ala Ala Ala Ser Thr Ser Thr Ser Ser Ala Gly Tyr
240      140      145      150
241      gtc atc tct ggc ggt aaa tct ggc agt ggt tcc aca act cgt tat tgg 576
242      Val Ile Ser Gly Gly Lys Ser Gly Ser Gly Thr Thr Arg Tyr
243      155      160      165      170
244      gat tgt tgt aaa gct tct tgc agc tgg cct gga aaa gct tct gtc act 624
245      Asp Cys Cys Lys Ala Ser Cys Ser Trp Pro Gly Lys Ala Ser Val
246      175      180      185
247      ggt cct gtt gac acc tgt gcc tcc aat ggt atc tct tta tta gat gcc 672
248      Gly Pro Val Asp Thr Cys Ala Ser Asn Gly Ile Ser Leu Leu Asp
249      190      195      200
250      aat gct caa agt ggt tgt aac ggt ggt aat ggt ttc atg tgt aac aac 720
251      Asn Ala Gln Ser Gly Cys Asn Gly Gly Asn Gly Phe Met Cys Asn
252      205      210      215
253      aac caa cct tgg gct gtc aat gat gag ctc gct tac ggt ttc gct gct 768
254      Asn Gln Pro Trp Ala Val Asn Asp Glu Leu Ala Tyr Gly Phe Ala
255      220      225      230
256      gcc tct att gct ggc tcc aac gaa gct gga tgg tgt tgt ggc tgt tat 816
257      Ala Ser Ile Ala Gly Ser Asn Glu Ala Gly Trp Cys Cys Gly Cys
258      235      240      245      250
259      gaa ttg acc ttc act tct ggc gct gct tct gga aag aag atg gtt gtt 864
260      Glu Leu Thr Phe Thr Ser Gly Ala Ala Ser Gly Lys Lys Met Val
261      255      260      265
262      caa gtt acc aac acc ggt ggc gat tta ggc tct aac cac ttt gat ttg 912
263      Gln Val Thr Asn Thr Gly Gly Asp Leu Gly Ser Asn His Phe Asp
264      270      275      280
265      caa atg ccc ggt ggt ggc gtt ggt atc ttc aat ggc tgt gct gct caa 960
266      Gln Met Pro Gly Gly Gly Val Gly Ile Phe Asn Gly Cys Ala Ala
267      285      290      295
268      tgg ggc gct ccc aat gat ggc tgg gga gct aga tat ggt ggt gtc agc 1008
269      Trp Gly Ala Pro Asn Asp Gly Trp Gly Ala Arg Tyr Gly Gly Val
270      300      305      310
271      tct gtc tct gac tgt gcc tct ctt ccc tct gct ctt caa gct ggt tgt 1056
272      Ser Val Ser Asp Cys Ala Ser Leu Pro Ser Ala Leu Gln Ala Gly
273      315      320      325      330
274      aaa tgg aga ttc aac tgg ttc aag aac tct gat aac cct acc atg acc 1104
275      Lys Trp Arg Phe Asn Trp Phe Lys Asn Ser Asp Asn Pro Thr Met
276      335      340      345
277      ttc aag gaa gtt acc tgt cct gct gaa tta act act cgc tca ggt tgc 1152 Phe
278      Glu Val Thr Cys Pro Ala Glu Leu Thr Thr Arg Ser Gly
279      350      355      360
280      gaa aga aag taa
281      Glu Arg
282      1164
283      365

```

284 <210> 12  
 E--> 285 <211> 1041

PAGE: 7

 RAW SEQUENCE LISTING  
 PATENT APPLICATION US/09/807,933

 DATE: 05/07/2001  
 TIME: 13:40:33

Input Set: I807933.RAW

286 <212> DNA  
 287 <213> Phycomyces nitens CP99002  
 288 <220>  
 289 <221> sig\_peptide  
 290 <222> (1)...(57)  
 291 <221> mat\_peptide  
 292 <222> (58)...(1041)  
 293 <400> 12

294	atg aag ttc tcc atc atc gct tcc gcc ctt ctc ctc gct gcc agc tcc	48
295	Met Lys Phe Ser Ile Ile Ala Ser Ala Leu Leu Leu Ala Ala Ser ?	
296	-15 -10 -5	
297	act tac gct gct gaa tgc agc caa ggc tat ggc cag tgt ggt ggc aag	96
298	Thr Tyr Ala Ala Glu Cys Ser Gln Gly Tyr Gly Gln Cys Gly Gly ?	
299	1 5 10	
300	atg tgg act ggt ccc acc tgc tgc acc tcc ggc ttc acc tgt gta ggt	144
301	Met Trp Thr Gly Pro Thr Cys Cys Thr Ser Gly Phe Thr Cys Val ?	
302	15 20 25	
303	gcc gaa aac aac gag tgg tac tct cag tgt atc ccc aac gat caa gtc	192
304	Ala Glu Asn Asn Glu Trp Tyr Ser Gln Cys Ile Pro Asn Asp Gln ?	
305	30 35 40 45	
306	cag ggt aac ccc aag acc acc acc acc acc acc acc aag gct gcc act	240
307	Gln Gly Asn Pro Lys Thr Thr Thr Thr Thr Thr Thr Lys Ala Ala ?	
308	50 55 60	
309	acc acc aag gct cct gtc acc acc acc aag gcc acc acc acc acc acc	288
310	Thr Thr Lys Ala Pro Val Thr Thr Thr Lys Ala Thr Thr Thr Thr ?	
311	65 70 75	
312	acc aag gcc cct gtc acc acc acc aag gcc act act act acc acc acc	336
313	Thr Lys Ala Pro Val Thr Thr Thr Lys Ala Thr Thr Thr Thr ?	
314		
315	Delete → <u>cccc</u> 80 85 90	
316	aag acc acc acc aag acc acc acc acc aag gct gcc acc acc acc tcc	384
317	Lys Thr Thr Thr Lys Thr Thr Thr Thr Lys Ala Ala Thr Thr Thr ?	
318	95 100 105	
319	tct tcc aac act ggc tac agc ccc att tct ggt ggc ttc tct gga aac	432
320	Ser Ser Asn Thr Gly Tyr Ser Pro Ile Ser Gly Gly Phe Ser Gly ?	
321	110 115 120 125	
322	ggt cgc act acc cgc tac tgg gat tgc tgc aag ccc tct tgc gcc tgg	480
323	Gly Arg Thr Thr Arg Tyr Trp Asp Cys Cys Lys Pro Ser Cys Ala ?	
324	130 135 140	
325	gac gga aag gct tct gta act aag cct gta ctc acc tgt gcc aag gat	528
326	Asp Gly Lys Ala Ser Val Thr Lys Pro Val Leu Thr Cys Ala Lys ?	
327	145 150 155	
328	ggt gtc agc cgt ctc ggt tcc gat gtc cag agc ggt tgc gtc ggc ggc	576
329	Gly Val Ser Arg Leu Gly Ser Asp Val Gln Ser Gly Cys Val Gly ?	
330	160 165 170	
331	cag gcc tac atg tgc aat gac aac cag ccc tgg gtt gtc aat gac gac	624
332	Gln Ala Tyr Met Cys Asn Asp Asn Gln Pro Trp Val Val Asn Asp ?	
333	175 180 185	
334	ctt gcc tac ggt ttc gct gct gcc agt ctc ggt agc gcc ggt gcc tct	672
335	Leu Ala Tyr Gly Phe Ala Ala Ala Ser Leu Gly Ser Ala Gly Ala ?	



PAGE: 8

 RAW SEQUENCE LISTING  
 PATENT APPLICATION US/09/807,933

 DATE: 05/07/2001  
 TIME: 13:40:33

Input Set: I807933.RAW

336	190	195	200	205	
337	gca ttc tgc tgc ggc tgt tac gag ctt acc ttc acc aac act gct gtc	720			
338	Ala Phe Cys Cys Gly Cys Tyr Glu Leu Thr Phe Thr Asn Thr Ala ?				
339	210	215	220		
340	gct ggc aag aag ttt gtc gtc cag gtc acc aac acc ggt gat gat ctc	768			
341	Ala Gly Lys Lys Phe Val Val Gln Val Thr Asn Thr Gly Asp Asp ?				
342	225	230	235		
343	agc acc aac cac ttt gat ttg cag atg ccc ggc ggt ggt gtc ggc tac	816			
344	Ser Thr Asn His Phe Asp Leu Gln Met Pro Gly Gly Gly Val Gly ?				
345	240	245	250		
346	ttc aac ggc tgc cag tcc cag tgg aac acc aac acc gat ggc tgg ggt	864			
347	Phe Asn Gly Cys Gln Ser Gln Trp Asn Thr Asn Thr Asp Gly Trp ?				
348	255	260	265		
349	gct cgc tat ggc ggt att agc tct att tca gag tgc gac aag ctt cct	912			
350	Ala Arg Tyr Gly Gly Ile Ser Ser Ile Ser Glu Cys Asp Lys Leu ?				
351	270	275	280	285	
352	acc cag ttg cag gct ggt tgc aag tgg aga ttc gga tgg ttc aag aac	960			
353	Thr Gln Leu Gln Ala Gly Cys Lys Trp Arg Phe Gly Trp Phe Lys ?				
354	290	295	300		
E-->	355	gct gac aac cca gag gtc acc ttc aag gct gtt act tgc cct gcc gag	1008	Ala	
W-->	356				
357	Asn Pro Glu Val Thr Phe Lys Ala Val Thr Cys Pro Ala				
358	305	310	315		
359	atc att gcc aag act ggt tgc gag cgc aag taa	1041			
360	Ile Ile Ala Lys Thr Gly Cys Glu Arg				
361	320	325			

362	<210> 51	
E-->	363	<211> 22 → - 22 listed
364	<212> DNA	- 23 found
365	<213> Artificial Sequence	
366	<220>	
367	<223> Description of Artificial Sequence: primer	
368	<400> 51	
369	cagagggaag acattgagag tag	

[illegible]

Line	? Error/Warning	Original Text
315	E Number of Bases conflict w/ Running Total	@@@ 80 85
315	E Wrong Nucleic Acid Designator	@@@ 80 85
315	E Wrong Nucleic Acid Designator	@@@ 80 85
315	E Wrong Nucleic Acid Designator	@@@ 80 85
315	E Wrong Nucleic Acid Designator	@@@ 80 85
355	E Wrong Amino Acid Designator	gct gac aac cca gag gtc acc ttc aag gct g
355	E Wrong Amino Acid Designator	gct gac aac cca gag gtc acc ttc aag gct g
355	E Wrong Amino Acid Designator	gct gac aac cca gag gtc acc ttc aag gct g
355	E Wrong Amino Acid Designator	gct gac aac cca gag gtc acc ttc aag gct g
355	E Wrong Amino Acid Designator	gct gac aac cca gag gtc acc ttc aag gct g
355	E Wrong Amino Acid Designator	gct gac aac cca gag gtc acc ttc aag gct g
355	E Wrong Amino Acid Designator	gct gac aac cca gag gtc acc ttc aag gct g
355	E Wrong Amino Acid Designator	gct gac aac cca gag gtc acc ttc aag gct g
355	E Wrong Amino Acid Designator	gct gac aac cca gag gtc acc ttc aag gct g
355	E Wrong Amino Acid Designator	gct gac aac cca gag gtc acc ttc aag gct g
355	E Wrong Amino Acid Designator	gct gac aac cca gag gtc acc ttc aag gct g
355	E Wrong Amino Acid Designator	gct gac aac cca gag gtc acc ttc aag gct g
355	E Wrong Amino Acid Designator	gct gac aac cca gag gtc acc ttc aag gct g
355	E Wrong Amino Acid Designator	gct gac aac cca gag gtc acc ttc aag gct g
355	E Wrong Amino Acid Designator	gct gac aac cca gag gtc acc ttc aag gct g
356	W Invalid/Missing Amino Acid Numbering	
363	E Input 22, Calc# Bases 23 differ	<211> 22